



SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: ZENECA LIMITED ., . .

(ii) TITLE OF INVENTION: GENE SILENCING

(iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS

(B) STREET: JEALOTTS HILL RESEARCH STATION,

(C) CITY: BRACKNELL,

(D) STATE: BERKSHIRE

(E) UNITED KINGDOM

(F) ZIP: RG42 6ET

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/10/085,418

(B) FILING DATE: 25-Mar-2003

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Kakefuda, Mary

(ix) TELECOMMUNICATION INFORMATION:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3681 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID

OXIDASE

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTOM13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AAATTTGATA GATTCAGTTT TTATGTTTTT AGTGCTGATT ACAACATTGA AATTCTAAAT 60  
TTAGAATTTA ATATTTATTA AATGTTAGTG CATTTATACA AATAACATAT TACATCTCAA 120  
ATAATATTGA GTTTGTTAGA TTTTATTTGC CCTGATTCTT TATCATAAAT AGGTTTTTCCT 180  
TTTAGGAAAA GGTTTTGAAT TGACTATTCT TTTTTTGGTA GGAAAAAGTT TAGGACTCTA 240  
TAAATAGAGG CATGTTCCCTT CTAACCTAAT TAGCATTAC AATGTAGTTT TAAGGGCTTT 300  
GAGAGTTTTG GTTAGAGGGA GAATTGTGA ACCTCTCATG TATCCGAGT GAATTGTTG 360  
AGTTTGTTC CCTCTGTATT TTGTAATCTC ATGTTTATAG TGGATTGCTC ATTCCTTTG 420  
TGCAGTAGG TCCATTGACC GAACACGTT AAATTTTGT GTCTTTTGGT ATATTTCTG 480  
TTCTTCTTAC TCGTGGTCTT TCGAGGTTG CTTTGCTAGC TTCCGCGTTT ACACCTGCTT 540  
ATTTTGGGTC CTAACAAGTG GTATCAGAGC CAGATTCAAT AATGGAGTCA GGTGTAGTGG 600  
TTGGATAATG CATGATTGAA CGAAGCTTGA AAGAGCTGTT CATCTGAGG GGTGTAGTGG 660

CTCTGTGTTG AGACATAAAT TTTGTAAGG AGATTATGGA GAGGAGAAGC AAGTTGTTGA 780  
 AGATTAAGTA AAGAAGGTGG ACAAATCTAT TTTGTCAGAA ATTGAGGCCA AGGGGGAGAT 840  
 TTGTTGGGTT TTATTTCCCG TGATTTTSTA CCATAAATAG GTTTTCTTTT AAGGAAAAAG 900  
 TTTTGAATTG ACTATTCTTT TTTTGGTAGG AAAAGSTTTA GGATTCTATA AATAGAGGCA 960  
 TGTCTCTTCT AACTTAATTA GCATTACAA TGTAATTTTA AGGGCTTTGA GAGTTTTGGT 1020  
 TAGAGGGAGA ATTTGTGAAC CTCTCATGTA TTCCGAGTGA ATTGGTTGAG GTTGTTCCTC 1080  
 TCTGTATTTT GTACTCTCAT GTTTATAGTG GATTGCTCAT TTCCTTTGTG GACGTAGGTC 1140  
 GATTGACCGA ACCACGTTAA ATCTTGTGT CTTTGGTAT ATTTCTCGTT GTCTTCTTAC 1200  
 TCGTGGTCTT TCGAGGTTTG CTTTGCTAGC TTCCGCGTTT ACACCTGCTT ATTTGCGGTC 1260  
 CTAACAGAGT TCGATGGGTT GAATCTATAA AAAGAAAAAT ATACTCGTGA TTCACGATTA 1320  
 TTTATATGAA AATATAATAA ATATTGAATT TCCTTTGCTA TTTCTTATGT TTACGTCTTT 1380  
 ATATTTCAAA TTATTCACC AATACGACA AGCCCTAGGC CATCTCTAGG AAATTCATAC 1440  
 AATTTTTTTT TTGTTGTTAA CTAGTTAAAT TGGCAGCCTT AAAGATTATT GTAAAATTCA 1500  
 AGGCAACTTC CTCAAGTACT ACAACTACAT TGTAACATCC CAGTCAAAGT GTCCTAAAAT 1560  
 TTTATAAAAT TTGACACATG AAACAATAGC ACAATAAAT TTAGTACTAT TGCAGCCATG 1620  
 GCCCATAAGC CATCATGTAT TATAGTCAAA ATGGGTCCTT TTCCAATTTG TCTTGATCCC 1680  
 AAAATCCCTT TGTAGGTAAG ATGGTTCAAC AAGGAAGTAT GACTCTTAAG GTAGACTTGG 1740  
 ACTCATAGAC TTGTCATAAC TCATAAGAC TTGGAATATA ATAATTATTC ATTTAAATTA 1800  
 TAATTCTCTA CTTTAATATC TTCTACTATA AATACCCTTT CAAAGCCTCA TTATTTGTAC 1860  
 ATCAAACATT GATATTCATC TCTTCAATCT TTTGTATTTA CATATTCTAT TTATTCAATA 1920  
 CACTTAGGAA AACACTTTAC CAAGAAATTA AGATGGAGAA CTTCCCAATT ATTAACCTGG 1980  
 AAAAGCTCAA TGGAGATGAG AGAGCCAACA CCATGGAAAT GATCAAAGAT GCTTGTGAGA 2040  
 ATTGGGGCTT CTTTGAGGTA ATCATAAAT ACATAAACAT ATTAATATGT TTGTTTCAAT 2100  
 TTATCAGTCA TACTTTTCTC TGTTTAAAA TTAATGTAC TTTCAATATT TAATAATTCG 2160  
 CATGACATGT TTATAACACA ACAAGATATA GATTACATTT TGATACATTA TATATAACTT 2220

GAACCATGGA ATTCCACATG AAGTAATGGA CACAGTAGAG AAAATGACAA AGGGACATTA 2400  
 CAAAGAAGTGC ATGGAACAGA GGTTTAAGGA ACTAGTGGCA AGTAAGGGAC TTGAGGCTGT 2460  
 TCAAGCTGAG GTTACTGATT TAGATTGGGA AAGCACTTTC TTCTTGCGCC ATCTTCCTAC 2520  
 TTCTAATATC TCTCAAGTAC CCGATCTTGA CGAAGAATAC AGGTACATAC ATGTGTCCTA 2580  
 CATATTGCGT ATATAATAAA TAAACACAAA ATTTAAGTTA TATACGCTGA CAGTATAACT 2640  
 AATTATAATG TTGTACCAAA TGATGCAGAG AGGTGATGAG AGATTTTGCT AAAAGATTGG 2700  
 AGAAATTGGC TGAGGAGTTA CTTGACTTAC TCTGTGAAA TCTTGGACTT GAAAAAGGTT 2760  
 ACTTGAAAAA TGCCTTTTAT GGATCAAAAG GTCCCAACTT TGGTACTAAA GTTAGCAACT 2820  
 ATCCACCATG TCCTAAGCCC GATTTGATCA AGGGACTCCG CGCTCATACA GACGCAGGAG 2880  
 GCATCATACT TCTGTTCCAA GATGACAAAG TGAGTGGCCT TCAACTCCTC AAAGACGAGC 2940  
 AATGGATCGA TGTTCCTCCC ATGCGCCACT CTATTGTGGT TAACCTTGGT GACCAACTTG 3000  
 AGGTACAAGA TTCACTAAGT GTGTGTGTTT TTATCACTAT AACTTAGAAG TAGTAACTAA 3060  
 AAATGGTATT AATGAAATGT TATAAAAACA GGTGATCACT AACGGGAAGT ACAAGAGTGT 3120  
 GCTGCACAGA GTAATTGCAC AAACAGACGG GACACGAATG TCATTAGCCT CATTTTACAA 3180  
 TCCAGGAAGT GATGCAGTAA TATATCCAGC AAAAAGTTTG GTTGAAAAAG AGGCAGAGGA 3240  
 AAGTACACAA GTGTATCCAA AGTTTGTGTT TGATGATTAC ATGAAGTTAT ATGCTGGACT 3300  
 CAAGTTTCAA GCCAAAGAGC CAAGATTGA AGCAATGAAG GCAATGGAAA GTGATCCAAT 3360  
 TGCAAGTGCT TAGATCCCAA TTCAATTAAA AAAATTGGTG TTTGAAAAAT ATATTTAAAT 3420  
 ATAGCAATCT ATGTATACAC ATTATTTGCT CTTCTTATGT ATGGTAGAAT AAAGTTAGTA 3480  
 TTAAAAAGA TTGTGATTTG CTGCATATGT ATCAAAAAGA GTCTAATAT TTGTATCTAT 3540  
 AAATAAGGTG CCTTCTAGTG AAATTATACA AATAATAATT TGGAGTGTAT TGTTCCTTCT 3600  
 CATGTAATTT AACTTTTAAG TATCTTACTT TACAATATAC TGTTCACTTA TTGAACATAT 3660  
 TGAGTGATAT ATTGACTCAA T 3681

(2) INFORMATION FOR SEQ ID NO:2:

(1) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA - page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CATTCATCTC TTCAATCTTT TG 22

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA (SEQ3) page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTAATTCT TGGTAAAGTG TTTTCC 26